

**Kaushalya Technical Training and Consultancy Services**  
**No. 1094, Indushankara, MCECHS Layout,**  
**23 Cross, Dr. Shivarama Karanth Nagara, Bengaluru - 560077**  
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## Basics of Java

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**Course Details:**

<b>Name</b>	Basics of Java
<b>Course Duration</b>	30 hours

Java is one of the most popular programming language. You can start learning coding in Java. It is being widely used in Backend programming, Web Application development, Mobile App Development and Enterprise application development. It is essential for the graduates and professionals to learn basics of java and then learn full stack web or app development as per their choice.

**Objectives of Training**

- Provide minds-on and hands-on training
- Understand Java and its applications
- Understand basics of programming
- Learn how to write algorithms and convert them into program
- Enhance logical thinking

**Outcome of Training**

- Trainees should be able to independently write programs for a given problem
- Training on Java enable trainees to solve objective and programming type questions. This would help them to prepare for placements/switch career.

**Syllabus**

<b>Module</b>	<b>Topics</b>
<b>Module 1 – Introduction to Java</b>	<ul style="list-style-type: none"><li>✓ Introduction to Java</li><li>✓ Features of Java</li><li>✓ Usages of Java</li><li>✓ History of Java</li><li>✓ JDK, JVM, JRE</li><li>✓ Getting started with Java by downloading JDK</li><li>✓ Writing simple programs</li></ul>

<b>Modules 2 – Building blocks of Java</b>	<ul style="list-style-type: none"> <li>✓ Datatypes</li> <li>✓ Variables, literals</li> <li>✓ Operators</li> <li>✓ Conditional statements</li> <li>✓ Loops</li> <li>✓ Arrays</li> <li>✓ Enumeration</li> <li>✓ User Input</li> <li>✓ String Methods</li> <li>✓ Math Methods</li> <li>✓ Sample programs</li> </ul>
<b>Module 3 –Object Oriented Programming</b>	<ul style="list-style-type: none"> <li>✓ Object oriented concepts</li> <li>✓ Inheritance in java</li> <li>✓ Polymorphism</li> <li>✓ Data binding</li> <li>✓ Abstraction</li> <li>✓ Abstract class in Java</li> <li>✓ Inheritance in java</li> <li>✓ Access modifiers</li> <li>✓ Sample programs</li> </ul>
<b>Module 4 – Exception Handling</b>	<ul style="list-style-type: none"> <li>✓ Exception management</li> <li>✓ Compile time and run time exception</li> <li>✓ try, catch, finally, throw, throws</li> <li>✓ Custom exception class</li> <li>✓ Sample programs</li> </ul>
<b>Module 5 –Java Collection framework</b>	<ul style="list-style-type: none"> <li>✓ Introduction to collection framework</li> <li>✓ Collection framework interfaces and implementation classes</li> <li>✓ List, Set, Queue interfaces</li> <li>✓ ArrayList, LinkedList, HashSet, Dqueue</li> <li>✓ Hash Map</li> <li>✓ Usage of Collection framework with oops</li> <li>✓ Sample programs</li> </ul>
<b>Module 6 –File Management</b>	<ul style="list-style-type: none"> <li>✓ Introduction to File Management</li> <li>✓ File Reader and Writer</li> <li>✓ Input and Output streams</li> <li>✓ Sample programs</li> </ul>
<b>Module 7 –Mock Test and Assessment</b>	<ul style="list-style-type: none"> <li>✓ Mock test</li> <li>✓ Assessment</li> </ul>